



EG&amp;G ROCKY FLATS, INC.

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

Date: November 30, 1990

To: Distribution

From: R. S. Roberts, NEPA, Bldg. T130B, X5912

Subject: 881 Hillside Quality Assurance Addendum

The 881 Hillside Quality Assurance Addendum (QAA) contains a number of items that need to be reviewed and resolved before sampling can successfully be conducted. These items will directly affect the quality of the risk assessment portion of the RI Report. These items are:

- A) In a future use scenario for the 881 Hillside, one of the potential paths for uptake of contaminants is through drinking water. In this scenario, it cannot be assumed that drinking water will be filtered. Therefore, analysis for metals need to be unfiltered.
- B) There is no procedure for handling Tentatively Identified Compounds (TIC). A procedure for handling TICs needs to be developed. Also, since gamma spectroscopy will be performed for Cs-137 and alpha spectroscopy will be performed for Pu-239, procedures to handle TICs in these broad spectrum analysis need to be developed.
- C) It is stated that a quality control (QC) sample will be collected with a frequency of 5%. This QC sample will be used for spikes and duplicates. The frequency of each of these analyses needs to be stated. Also, serial dilution frequencies need to be stated.
- D) A number of metals are being analyzed for in all media of concern. Procedures need to be developed for speciation of a metal if it is detected. This is true since different species of metals have different biological effects.
- E) Pu-238 and Pu-241 need to be analyzed for in all media of concern. This is true since the Pu-241 concentration will give us maximum future ingrowth of Am-241. Also, we are not completely characterizing the concentration of radionuclides in the environment if these concentrations are not reported.
- F) Soil scrapes need to be analyzed for metals, semi-volatiles, pesticides, PCBs and radionuclides. These concentrations need to be established so that an adequate risk assessment can be performed.

ADMIN RECORD

A-OU01-000919

Please contact me so that these issues can be resolved in a timely fashion. Also the NEPA Remediation and Risk group should be made aware of all future sampling and analysis decisions so that quality risk assessments can be performed.

Distribution

M. B. Amdt  
W. S. Busby  
P. F. Folger  
T. C. Greergard  
~~J. P. Koffer~~  
J. W. Langman  
L. McInroy

cc: L. J. O. Frick  
K. S. Lewis  
G. W. Litus  
W. M. Moore  
S. M. Nesta